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ATTY. DOCKET NO. 17509-000	SERIAL NO. 09/975,672	FILING DATE October 10, 2001				
APPLICANT(S) Sheppard, Jr., et al.		GROUP 3762				
U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RM	3,692,027	09/19/72	Ellinwood, Jr.			
	4,360,019	11/23/82	Portner et al.			
	4,507,115	03/26/85	Kambara et al.			
	4,585,652	04/29/86	Miller et al.			
	4,731,049	03/15/88	Parsi			
	4,793,825	12/27/88	Benjamin et al.			
	5,042,975	08/27/91	Chien et al.			
	5,167,625	12/01/92	Jacobsen et al.			
	5,170,801	12/15/92	Casper et al.			
RM	5,200,051	04/06/93	Cozzette, et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO	
RM	93/03790	03/04/93	WO	Rutgers, The State University of NJ		
	197 16 683	06/04/98	DE	Fraunhofer Ges Forschung	X	
↓	01/28629	04/26/01	WO	Abiomed, Inc.		
RM	01/37926	05/31/01	WO	Abiomed, Inc.		
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)						
RM	Barillaro, et al., Optical Materials, 17(1-2):91-94 (2001).					
	Low, et al., "Microactuators Towards Microvalves for Responsive Controlled Drug Delivery," Sensors & Actuators B 67: 149-60 (2000).					
↓	Madou & Florkey, "From Batch to Continuous Manufacturing of Microbiomedical Devices," Chem. Rev., 100: 2679-92 (2000).					
RM	Madou, Fundamentals of Microfabrication, pp. 468-512 (CRC Press 1997).					
EXAMINER RM				DATE CONSIDERED 18/26/04		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

FORM PTO-1449, Adapted

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ATTY. DOCKET NO. 17509-0019	SERIAL NO. 09/975,672	FILING DATE October 10, 2001
APPLICANT(S) Sheppard, Jr., et al.		GROUP 3762

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL RM	DOCUMENT NUMBER 5,252,294	DATE 10/12/93	NAME Kroy et al.	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,279,607	01/18/94	Schentag et al.			
	5,318,557	06/07/94	Gross			
	5,324,316	06/28/94	Schulman et al.			
	5,336,213	08/09/94	D'Angelo et al.			
	5,366,454	11/22/94	Currie et al.			
	5,368,704	11/29/94	Madou et al.			
	5,368,588	11/29/94	Bettinger			
	5,429,822	07/04/95	Gresser et al.			
	5,443,508	08/22/95	Giampapa			
	5,474,527	12/12/95	Bettinger			
	5,585,069	12/17/96	Zanzucchi et al.			
	5,713,954	02/03/98	Rosenberg et al.			
RM	5,797,898	08/25/98	Santini, Jr. et al.			
RM	5,798,042	08/25/98	Chu et al.			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Madou & He, "Exploitation of a Novel Artificial Muscle for Controlled Drug Delivery," pp. 495-497 (1999).
	Surbled, et al., "Shape Memory Alloys for Micromembranes Actuation," SPIE. 3825: 63-70 (1999).
	Surbled, et al., "Array of Shape Memory Alloy One-Shot Micro-Valves for Drug Delivery," MME '99, Gif sur Yvette, France (Sept. 27-28, 1999).
RM	Tierney, et al., "New Electrorelease Systems Based on Microporous Membranes," J. Electrochem. Soc., 137:3789-3793 (1990).

EXAMINER	RM	DATE CONSIDERED	10/26/04
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EXAMINER INITIAL RM	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,807,397	09/15/98	Barreras			
	5,841,122	11/24/98	Kirchhoff			
	5,842,787	12/01/98	Kopf-Sill et al.			
	5,843,767	12/01/98	Beattie			
	5,962,081	10/05/99	Öhman et al.			
	5,976,336	11/02/99	Dubrow et al.			
	5,989,445	11/23/99	Wise et al.			
	6,047,214	04/04/00	Mueller et al.			
	6,096,656	08/01/00	Matzke et al.			
	6,123,861	09/26/00	Santini, Jr. et al.			
	6,140,740	10/31/00	Porat, et al.			
	6,171,850	01/09/01	Nagle et al.			
	6,243,608	06/05/01	Pauly et al.			
↓	09/638,109		Santini, Jr., et al.			08/11/00
RM	09/715,493		Santini, Jr., et al.			11/17/00

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Tierney, et al., "Electroreleasing Composite Membranes for Delivery of Insulin and Other Biomacromolecules," <i>J. Electrochem. Soc.</i> , 137:2005-06 (1990).
↓	Liu C., et al. "Applications of microfabrication and micromachining techniques to biotechnology," <i>Trends in Biotechnology</i> , Vol. 15, No. 6, pp 213-16.
↓	Palmore & Whitesides, "Microbial and Enzymatic Biofuel Cells," <i>Enzymatic Conversion of Biomass for Fuel Production</i> , ACS Symposium Series 566:271-90 (1994).
RM	Kano & Ikeda, "Fundamentals and practices of mediated bioelectrocatalysis," <i>Analytical Sci.</i> , 16(10):1013-21 (2000)

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Wilkinson, Autonomous Robots, 9(2): 99-111 (2000).

Wolf & Tauber, "Silicon Processing for the VLSI Era." (Lattice Press, 1986).

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EXAMINER <i>R. L. H. C.</i>	DATE CONSIDERED <i>10/26/04</i>
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EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS
RM	6,001,090	12/14/1999	Lenhart			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION Yes No	
RM	99/42039	08/26/1999	WO	Vascusense, Inc.		
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)						
RM	Reynaerts, et al. "An Implantable drug-delivery system based on shape memory alloy micro-actuation", Sensors and Actuators A, 61(1-3):455-162 (1997).					
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